

ELECTRICALLY CONDUCTIVE COMPOSITIONS AND METHOD OF MANUFACTURE THEREOF

ABSTRACT

[0066] An electrically conductive composition comprises a polymeric resin; a nanosized dispersion agent; and carbon nanotubes, wherein the composition has an electrical volume resistivity less than or equal to about 10^8 ohm-cm, and a notched Izod impact strength greater than or equal to about 5 kilojoules/square meter. In another embodiment, a method for manufacturing an electrically conductive composition comprises blending a polymeric resin, a nanosized dispersion agent and single wall carbon nanotubes, wherein the composition has an electrical volume resistivity less than or equal to about 10^8 ohm-cm, and a notched Izod impact strength greater than or equal to about 5 kilojoules/square meter.